

Title (en)
Compact heating, ventilation and air conditioning system for automobiles

Title (de)
Kompakte Heizungs-, Lüftungs- und Klimaanlage für Fahrzeuge

Title (fr)
Installation compacte de chauffage, ventilation et climatisation pour véhicules

Publication
EP 1142734 A3 20031112 (EN)

Application
EP 01108421 A 20010403

Priority
JP 2000102646 A 20000404

Abstract (en)
[origin: EP1142734A2] A heating, ventilation and air conditioning system (1) including a casing (2) with a vent outlet, a blower chamber (11) within the casing, a wall cooperating with the casing to form a descending air passage permitting a downward flow of air discharged from the blower chamber and an ascending air passage permitting an upward flow of air passing through the descending air passage toward the vent outlet. A heating heat-exchanger (6) is substantially horizontally disposed within the ascending air passage and arranged adjacent to a recessed portion of the wall and at least partially overlapping in the vertical direction with a cooling heat-exchanger (5) disposed between the blower chamber and the heating heat-exchanger. A bypass air passage bypassing the heating heat-exchanger is substantially linearly aligned with the vent outlet via the ascending air passage. A foot vent passage is disposed above the heating heat-exchanger and between the blower chamber and the ascending air passage. <IMAGE>

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B60H 1/00

IPC 8 full level
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CPC (source: EP US)
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B60H 2001/00214 (2013.01 - EP US)

Citation (search report)
• [Y] DE 19741862 A1 19990325 - DAIMLER BENZ AG [DE]
• [Y] US 4852638 A 19890801 - HILDEBRAND REINHARD [DE], et al
• [A] DE 19534738 A1 19960328 - NIPPON DENSO CO [JP]
• [A] EP 0788907 A2 19970813 - CALSONIC CORP [JP]
• [A] FR 2742383 A1 19970620 - VALEO CLIMATISATION [FR]

Cited by
EP1510375A1; DE102004030672B4; FR2987787A1; FR3054488A1; FR2984805A1; CN104136247A; EP1571019A1; DE102004042287B4;
US9789748B2; WO2005084973A1; WO2013092465A1; EP2480424A1

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